

Luminaire Efficiency:

66 Lumens/Watt

Light Quality:

CRI: 0.0

Color Temperature:

0 K

Output: 329 lm

Max. cd: 131 cd

Power: 5.0 W

PF: 1.0



Product:
Highlighter Cove Luminaire
Modular LED Cove Lighting System

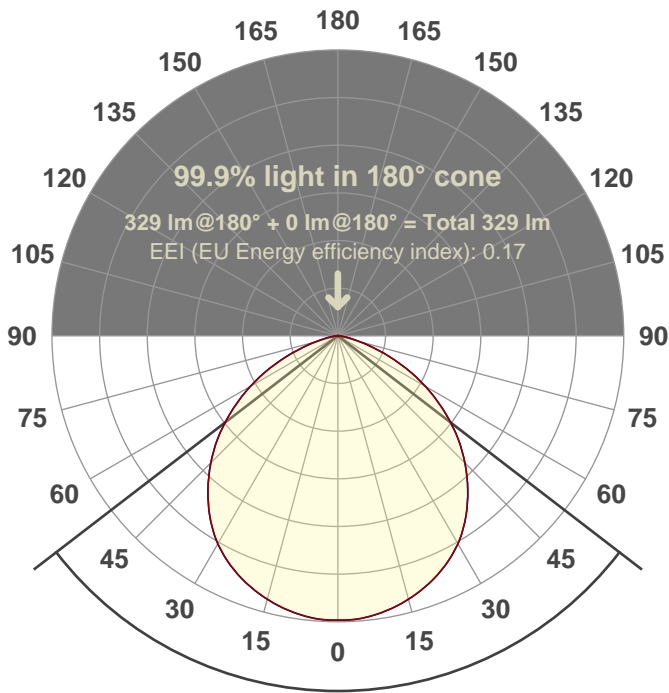
Light Source:
High Output RGBW LED; Green Component

Product Code:
HL Cove
HL-COVE-300-RGBW-HO-CA-120-5W-ELV-IP66 (GR)

Filename:
PH-HL-COVE-300-RGBW-HO-CA-120-5W-ELV-IP66 (GR)

Test:
PH-02142019-0038

Date and time:
2/14/2019 12:07:43 PM

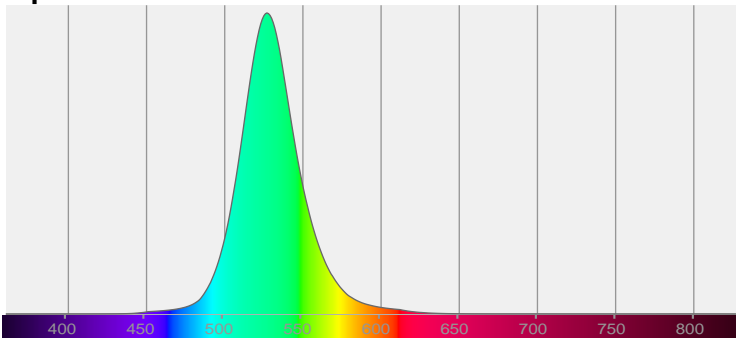


Beam Angle: 104.9°

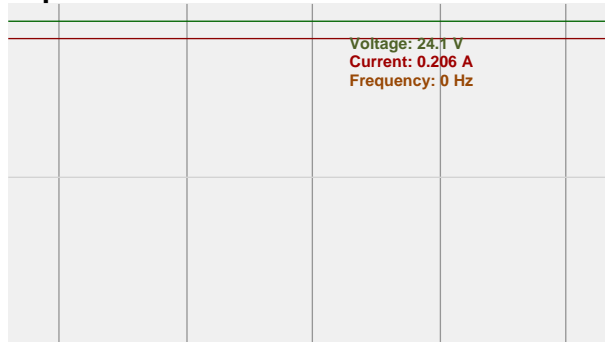


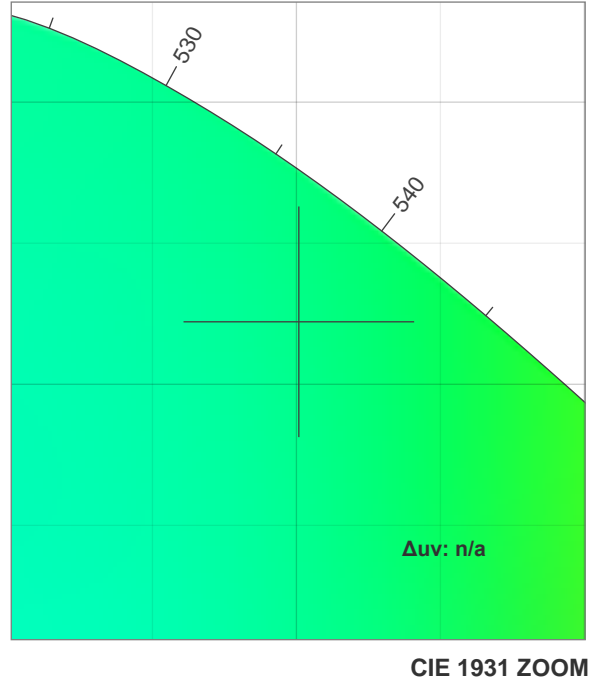
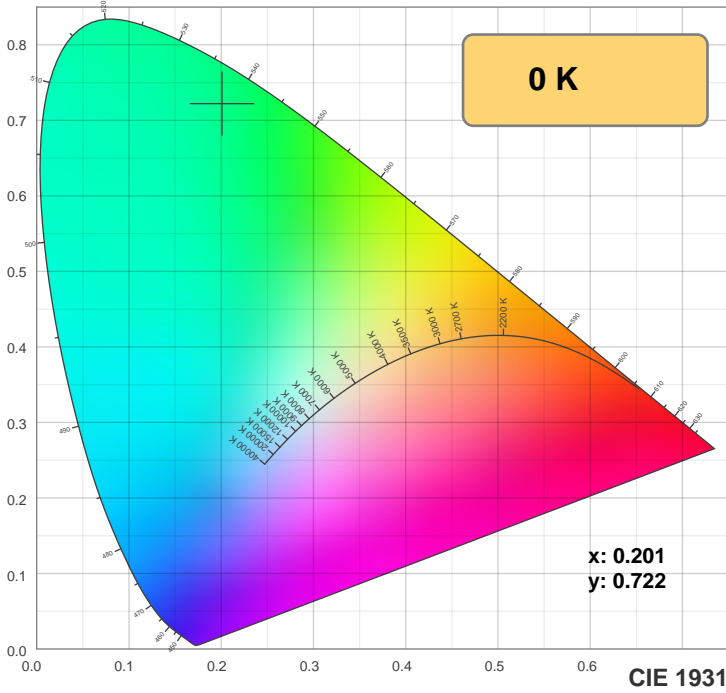
CIE 1931
x: 0.201
y: 0.722

Spectral Distribution



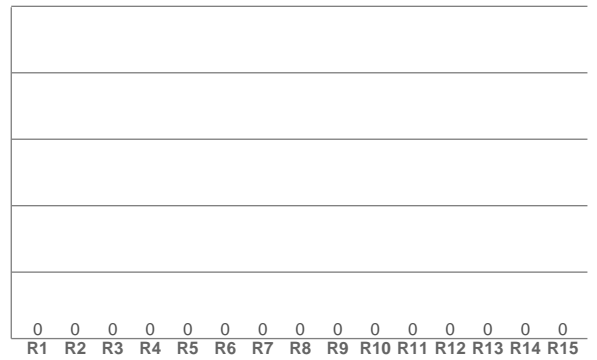
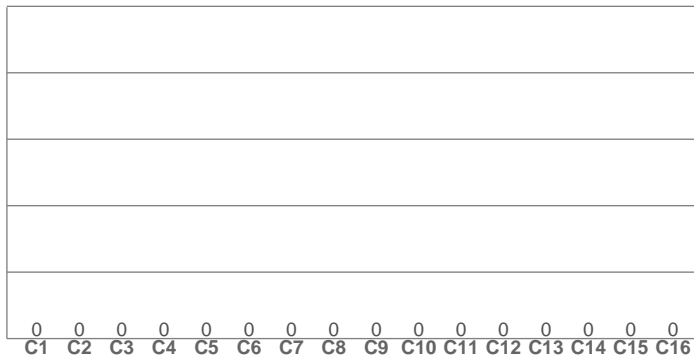
Input Power Waveform





TM30: 0.0

CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

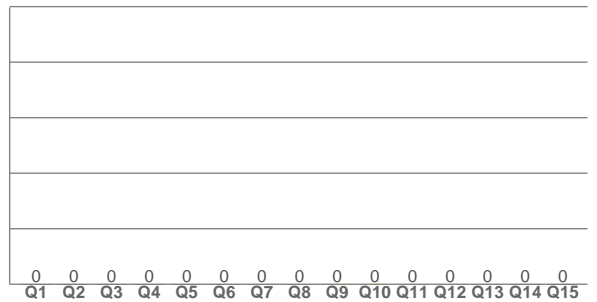
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



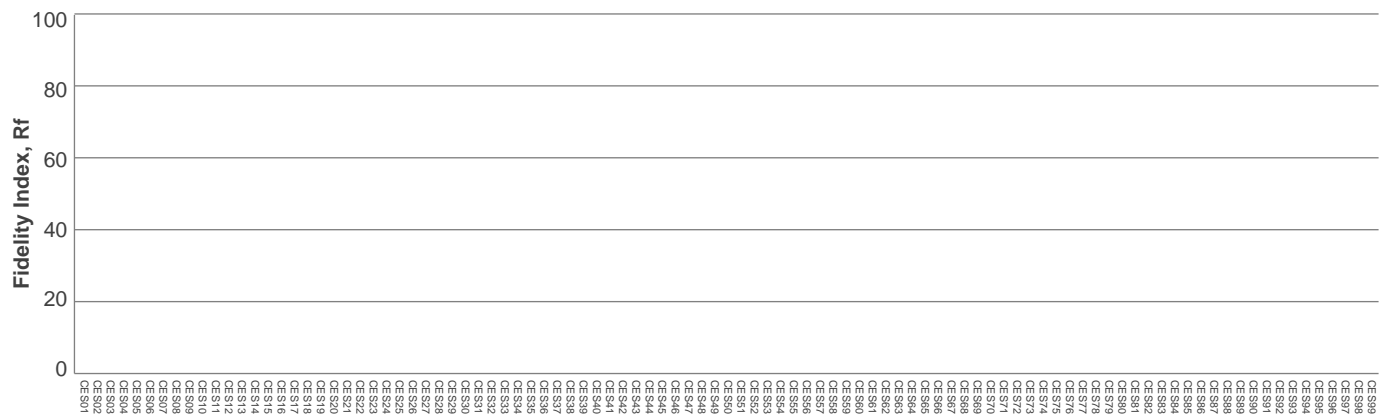
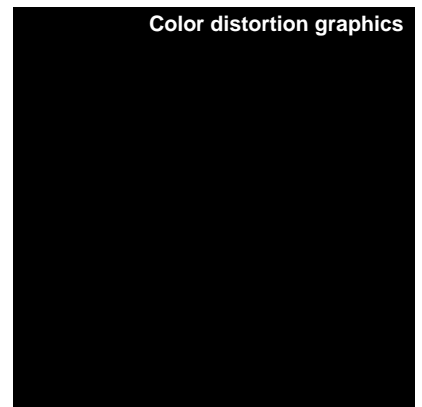
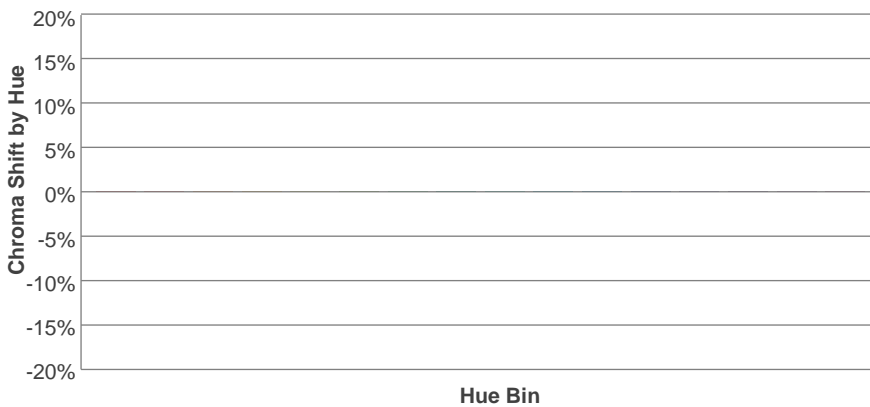
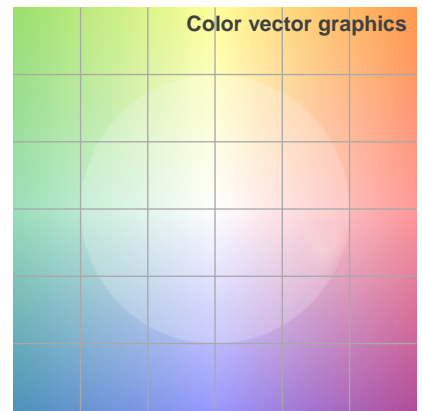
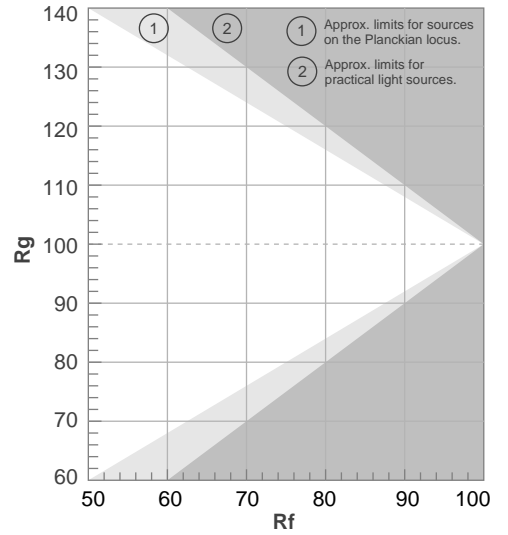
Color Parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.201	0.722	0.071	0.385	n/a

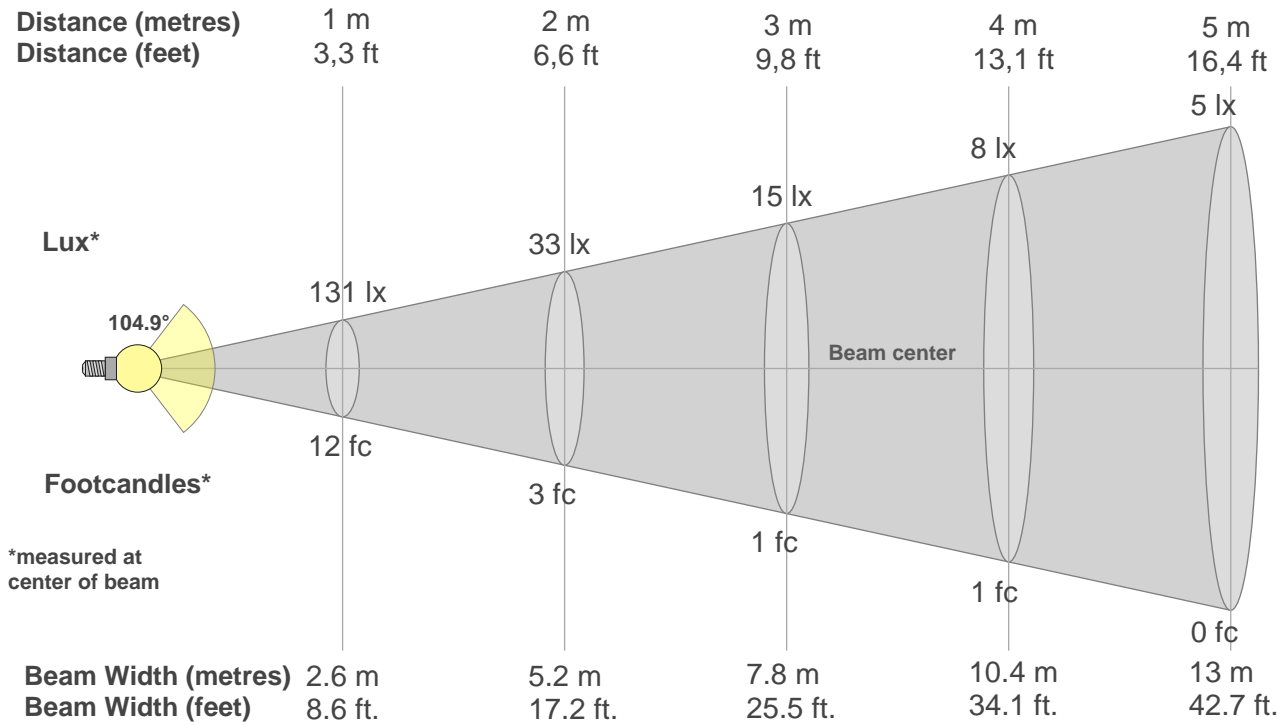
Rf 0.0
Fidelity Index Rf

Rg 0.0
Gamut Index Rg

Hue Bin	R _f	Graphic Shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Evaluation Sample



Beam Intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
131lx	33lx	15lx	8lx	5lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx
12.2fcd	3fcd	1.4fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
131	130	128	125	122	117	110	102	93	83	71	59	46	34	21	11	5	1	0	0
100%	100%	98%	96%	93%	89%	84%	78%	71%	63%	55%	45%	36%	26%	16%	8%	4%	1%	0%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
131	130	128	125	122	117	110	102	93	83	71	59	46	34	21	11	5	1	0	0
100%	100%	98%	96%	93%	89%	84%	78%	71%	63%	55%	45%	36%	26%	16%	8%	4%	1%	0%	0%

Intensities in 180° c-plane

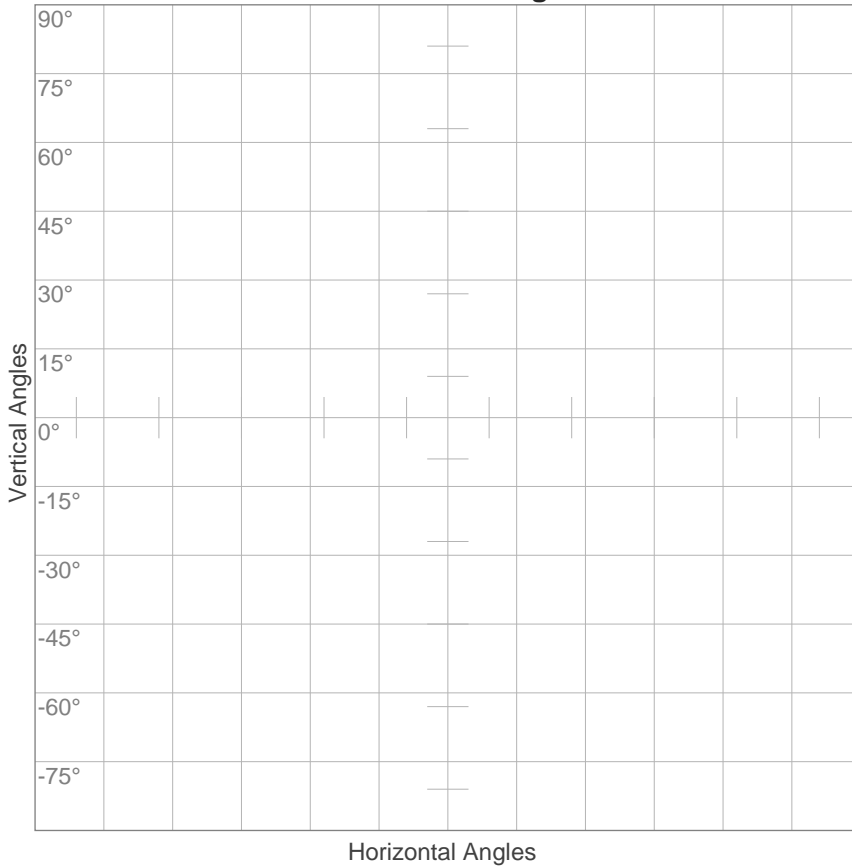
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
131	130	128	125	122	117	110	102	93	83	71	59	46	34	21	11	5	1	0	0
100%	100%	98%	96%	93%	89%	84%	78%	71%	63%	55%	45%	36%	26%	16%	8%	4%	1%	0%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
131	130	128	125	122	117	110	102	93	83	71	59	46	34	21	11	5	1	0	0
100%	100%	98%	96%	93%	89%	84%	78%	71%	63%	55%	45%	36%	26%	16%	8%	4%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cut-off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
104.9°	147.5°	163°	85.7%	60.2%

ISO Candela Diagram



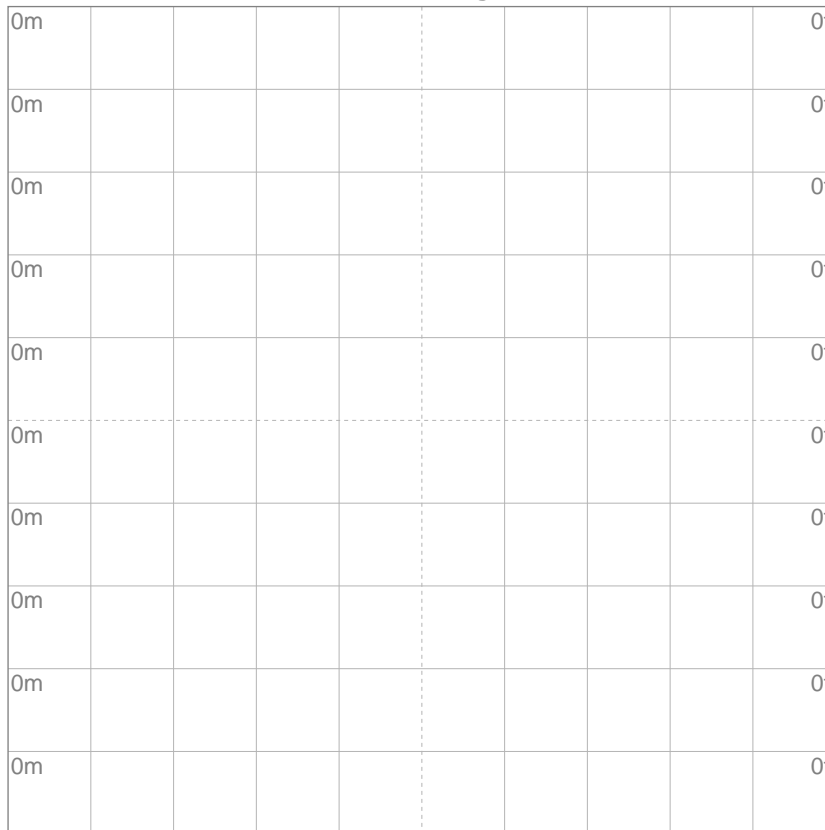
10%	13 cd
20%	26 cd
30%	39 cd
40%	52 cd
50%	65 cd
60%	79 cd
70%	92 cd
80%	105 cd
90%	118 cd

Conditions:

Number of c-planes: 16

Center Beam Intensity: 131 cd

ISO Lux Diagram



3%	39.3m lx
5%	65.4m lx
10%	0.131 lx
30%	0.393 lx
50%	0.654 lx

Conditions:

Number of c-planes: 16

Center Beam Flux Density:
1.31 lx

*Lux distribution on a surface
when lamp is mounted at 10
metres from the surface.*

Glare Evaluation According to UGR

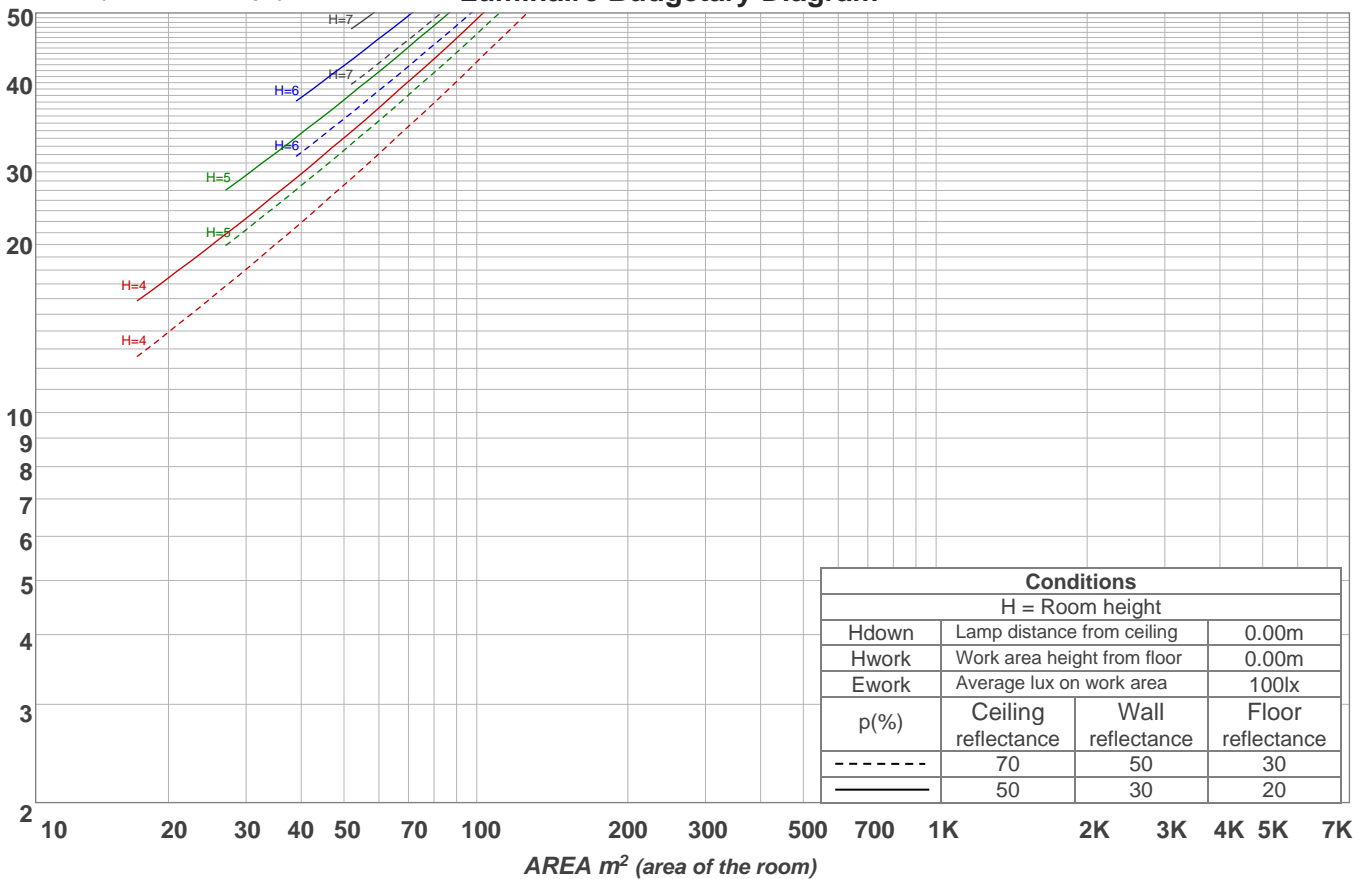
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20.2	21.4	20.5	21.6	21.9	20.2	21.4	20.5	21.6	21.9
	3H	21.1	22.2	21.4	22.5	22.7	21.1	22.2	21.4	22.5	22.7
	4H	21.3	22.3	21.6	22.6	22.9	21.3	22.3	21.6	22.6	22.9
	6H	21.3	22.3	21.7	22.6	22.9	21.3	22.3	21.7	22.6	22.9
	8H	21.3	22.3	21.7	22.6	22.9	21.3	22.3	21.7	22.6	22.9
	12H	21.3	22.2	21.7	22.5	22.8	21.3	22.2	21.7	22.5	22.8
4H	2H	20.7	21.7	21.0	22.0	22.3	20.7	21.7	21.0	22.0	22.3
	3H	21.7	22.6	22.1	22.9	23.2	21.7	22.6	22.1	22.9	23.2
	4H	22.0	22.7	22.4	23.1	23.4	22.0	22.7	22.4	23.1	23.4
	6H	22.1	22.7	22.5	23.1	23.5	22.1	22.7	22.5	23.1	23.5
	8H	22.1	22.7	22.5	23.1	23.5	22.1	22.7	22.5	23.1	23.5
	12H	22.1	22.6	22.5	23.0	23.5	22.1	22.6	22.5	23.0	23.5
8H	4H	22.0	22.7	22.5	23.0	23.5	22.0	22.7	22.5	23.0	23.5
	6H	22.2	22.7	22.6	23.1	23.6	22.2	22.7	22.6	23.1	23.6
	8H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
	12H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
12H	4H	22.0	22.6	22.5	23.0	23.4	22.0	22.6	22.5	23.0	23.4
	6H	22.2	22.6	22.7	23.1	23.5	22.2	22.6	22.7	23.1	23.5
	8H	22.2	22.6	22.7	23.0	23.5	22.2	22.6	22.7	23.0	23.5
Variation of the observer's position for the luminaire distance S.											
S = 1.0H		+0.2 / -0.3					+0.2 / -0.3				
S = 1.5H		+0.4 / -0.8					+0.4 / -0.8				
S = 2.0H		+1.0 / -1.6					+1.0 / -1.6				
Standard table		BK03					BK03				
Correction summand		4.6					4.6				
Corrected glare indices referring to 329 lm total luminous flux.											

Coefficient of Utilization

Ceiling reflectance	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio) Room values are expressed as percentage of lumens delivered to the task surface.																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	35	48	40	35	46	40	35	45	39	35	33
9	59	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

LAMPS (number of lamps)

Luminaire Budgetary Diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
12.4 lm	35.4 lm	53.7 lm	63.9 lm	63.7 lm	52.9 lm	33.4 lm	11.7 lm	1.74 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS Table

BUG Rating:	B0 U1 G0	
Forward Light	Lumens	Lumens %
Low(0-30):	50.8	15.4%
Medium(30-60):	90.2	27.4%
High(60-80):	22.6	6.9%
Very high(80-90):	0.9	0.3%
Back Light		
Low(0-30):	50.8	15.4%
Medium(30-60):	90.2	27.4%
High(60-80):	22.6	6.9%
Very high(80-90):	0.9	0.3%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

LCS Graph

